## Scenario Worksheet

## Practice and Scenario Description:

Tractice and Section Description		1
Information Type	Data	
Region	New England	
State	Connecticut	
Discipline Group	Environmental Engineering	
Practice Code/Name	359 - Waste Treatment Lagoon	
Scenario ID	1	
Scenario Name	Waste Treatment Lagoon	
Scenario Description	Flexible Membrane (521A), Pond Seal Heavy Use Area Protection (561), and	Sealing or Lining, Bentonite Sealant (521C), Pond Sealing or Lining, Compacted Clay Treatment (521D), Pond Sealing or Lining, ing or Lining, Soil Dispersant (521B), Fence (382), Critical Area Planting (342), Nutrient Management (590), Waste Transfer (634), Solid/Liquid Waste Separation Facility (632).
Before Practice Situation	facilities. Manure and other agricultu accumulating at the source, or are being a source.	mal feeding operation without a waste management system adequate to handle the waste stream leaving the animal productio ral waste by-products are not being utilized or controlled in an environmentally safe manner. The wastes are either ing transported but not properly utilized or disposed of. This situation poses an environmental threat of excessive nutrients, orted into surface and groundwater resources.
After Practice Situation	A waste treatment lagoon constructed This facility provides the landowner a	d from non-site material provides an environmentally safe facility for storing manure and other agricultural waste by-products. means of storing and treating waste until it can be utilized in a proper manner in accordance with a nutrient management plan. 4,092 ft3; 300' X 60' (top); 3:1 inside and outside side slopes; cut/fill ratio = 1.25; total depth = 8'; 1' freeboard (not included in
Scenario Feature Measure	Design Storage Volume	

## Cost Summary

Scenario Unit

Cost Julilliary.				
Cost Category	Scenario Cost	Scenario Cost/Unit		
Materials	\$27.36	\$0.00		
Equipment/Installation	\$16,039.49	\$0.25		
Labor	\$0.00	\$0.00		
Mobilization	\$2,052.40	\$0.03		
Acquisition of Technical Knowledge	\$0.00	\$0.00		
Foregone Income	\$0.00	\$0.00		
Total	\$18,119.25	\$0.28		

Cubic Foot

## Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
			Structural steel tubing, 2" diameter, 1/8" wall				
Materials	1120	Structural steel tubing, 2" diameter	thickness, materials only	Foot	\$3.42	8	\$27.36
			Stripping and stockpiling of topsoil adjacent to				
Equipment/Installation	1199	Stripping and stockpiling, topsoil	stripping area. Includes equipment and labor.	Cubic Yard	\$0.80	630	\$504.00
			Bulk excavation of common earth including				
			sand and gravel with dozer >100 HP with				
		Excavation, common earth, large	average push distance of 150 feet. Includes				
Equipment/Installation	1223	equipment, 150 ft	equipment and labor.	Cubic Yard	\$3.39	1329	\$4,505.31
			Earthfill, dumped and spread without				
			compaction effort, includes equipment and				
Equipment/Installation	51	Earthfill, Dumped and Spread	labor	Cubic yard	\$3.27	1334	\$4,362.18
			Earthfill, roller or machine compacted,				
Equipment/Installation	49	Earthfill, Roller Compacted	includes equipment and labor	Cubic yard	\$4.00	1667	\$6,668.00
			Equipment >150HP or typical weights greater				
			than 30,000 pounds or loads requiring over				
Mobilization	1140	Mobilization, large equipment	width or over length permits.	Each	\$513.10	4	\$2,052.40

11/27/2012 1 of 1